

## REMARKS

Applicant thanks the Examiner for the courtesy extended to Applicant's representative Larry Cullen and to the inventor Amarildo Vieira during a telephone interview on June 8, 2006.

During the interview, Applicant explained their invention and the prior art of Cho et al. (U.S. Pat. 6,335,819) and Miyazaki (U.S. Pat. 6,532,091). Applicant explained that the wavelength conversion of Applicant's invention occurs in the laser diode via cross gain modulation, whereas the prior art requires a SEAM (Cho) or other device for the conversion. The Examiner appreciated the distinctions discussed by Applicant and suggested to recite that the cross gain modulation occurs in the laser diode. It is Applicant's understanding that, with this suggestion, the claims are considered to be patentable over the prior art of record.

Applicants have amended claims 7, 19, and 23 as suggested during the interview. Accordingly, claims 7, 19 and 23 are believed to patentable over the prior art of record. Claims 8-13 and 20, which depend on claim 7, claims 25-31, which depend on claim 19, and claim 24, which depends on claim 23 are also believed to be patentable over the prior art at least because of their dependency on allowable claims.

No new matter has been added.

Having fully responded to the Office action, the application is believed to be in condition for allowance. Should any issues arise that prevent early allowance of the above application, the examiner is invited to contact the undersigned to resolve such issues.

U.S. Serial No.: 10/774,308

To the extent an extension of time is needed for consideration of this response, Applicant hereby request such extension and, the Commissioner is hereby authorized to charge deposit account number 502117 for any fees associated therewith.

Date: 6/8/06

Respectfully submitted,

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